



Product code : 50045A

## ISOLEMFI 50045A + HARDENER 521

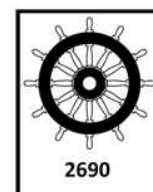
### DESCRIPTION

ISOLEMFI 50045A is a polyurethane two parts adhesive.

This product has a fire resistance certificate according to the European directive on marine equipment in force.

### AREAS OF APPLICATIONS

ISOLEMFI 50045A is used for the bonding of various materials like expanded or extruded polystyrene foam, polyurethane or phenolic foam, aluminium honeycomb, mineral wool or tiles on plasterboard covered with cardboard, wood, laminate, chipboard, polyester, hard PVC, steel or aluminium sheets, lacquered or galvanized steel sheets, fiber cement, etc.



### TECHNICAL DATA

	Part A ISOLEMFI 50045A	Part B HARDENER 521
Type of product	Based on polyols	Isocyanate
Color	Beige to beige-grey	Dark brown
Viscosity at 20°C	Brookfield RVT 5 / 10 rpm: 17,000 ± 7,000 mPa.s	Brookfield LVT 2 / 30 rpm: 250 ± 100 mPa.s
Density at 20°C	1.55 ± 0.03	1.23 ± 0.02
Mixture (in weight)	A / B = 100 / 20	
Mixture (in volume)	A / B = 100 / 25	
Color of mix	Dark beige	
Viscosity of mix at 20°C	Brookfield RVT 7 / 10 rpm: approx. 8,000 mPa.s at 3 min	
Application temperature	15 to 30°C	
Pot life	65 to 100 min	
Pressing time at 20°C	7 h	
Final setting time at 20°C	48 h	
Temperature resistance	-40 to +100°C	
Final Shore A hardness	Approx. 90	
Calorific value	Approx. 16.5 MJ/kg	
Cleaner	EMFINET 683 before setting (highly flammable)	

## INSTRUCTIONS FOR USE

### Substrates preparation:

The substrates to be bonded must be even, dry, dust free and not have any traces of grease or other contaminants that could harm bonding.

If the substrates need to be cleaned, use EMFINET 683, methylethylketone (MEK), acetone or DEGREASER 1001. For materials sensitive to ketones, use ethanol.

Check their compatibility with the substrates.

If necessary, rub down metal surfaces beforehand. Clean them after rubbing down. Allow to dry after degreasing.

Note: when using solvents, extinguish all sources of ignition and carefully follow the safety and handling instructions given by the manufacturer.

### Application:

For difficult materials, it is necessary to make tests beforehand.

ISOLEMFI 50045A is to apply on one of the substrates to be bonded by spraying with a gun, in ropes, with a scraper or a roller. Respect the mixing weight ratio part A / part B of 100 / 20.

Apply uniformly on the entire surface and press to ensure a perfect contact between substrates and adhesive. Apply a pressure between 0.2 and 0.4 daN/cm<sup>2</sup> during the whole setting.

The setting time depends on temperature, application method and applied amount.

It is therefore imperative:

- in case of working under 20°C: to ensure that pressing time is sufficient;
- in case of working over 20°C: to ensure that open time and closed assembly time are not excessive.

Otherwise, defective bonding could happen.

### Cleaning:

Tools can be cleaned with EMFINET 683, methylethylketone (MEK) or acetone before the adhesive has completely cured.

After curing, abrasion is necessary.

## CONSUMPTION

200 to 500 g/m<sup>2</sup> depending on application method and materials to be bonded.

## STORAGE AND SHELF LIFE

12 months in closed original packaging stored at a temperature below 25°C.

In cold weather, store the packaging at about 20°C before use.

## PACKAGING

ISOLEMFI 50045A (part A): 30, 60 kg and 250 kg metal drums, 1 250 kg containers.

HARDENER 521 (part B): 250 kg metal drums, 1 250 kg containers.

Contact us for other packaging options.

## SAFETY

Read material safety data sheets of both components before use.

The technical data contained herein is based on our present knowledge and experience and we cannot be held liable for any errors, inaccuracies, omissions or editorial failings that result from technological changes or research between the date of issue of this document and the date the product is acquired.

Before using the product, the user should carry out any necessary tests in order to ensure that the product is suitable for the intended application. Moreover, all users should contact the seller or the manufacturer of the product for additional technical information concerning its use if they think that the information in their possession needs to be clarified in any way, whether for normal use or a specific application of our product.

Our guarantee applies within the context of the statutory regulations and provisions in force, current professional standards and in accordance with the stipulations set out in our general sales conditions.

The information detailed in the present technical data sheet is given by way of indication and is not exhaustive. The same applies to any information provided verbally by telephone to any prospective or existing customer.

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